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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/623,584	12/04/2000		Horst Grafe	HM-349 PCT	5053
7590 01/25/2005				EXAMINER	
Friedrich Kue	ffner		ASHLEY, BOYER DOLINGER		
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Suite 910				ART UNIT	PAPER NUMBER
New York, NY 10017				3724	
				DATE MAILED: 01/25/2006	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/623,584	GRAFE ET AL.
Office Action Summary	Examiner	Art Unit
•	Boyer D. Ashley	3724
The MAILING DATE of this communication ap	ppears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fr tte, cause the application to become ABANDO	days will be considered timely. Tom the mailing date of this communication. The mailing date of this communication. The mailing date of this communication.
Status .		
1) ⊠ Responsive to communication(s) filed on <u>05</u> 2a) ⊠ This action is FINAL . 2b) □ Th 3) □ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters,	
Disposition of Claims		
4) ⊠ Claim(s) 14-28 is/are pending in the application 4a) Of the above claim(s) 22-26 and 28 is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 14-21 and 27 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	e withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) acceptance and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies	nts have been received. nts have been received in Applic iority documents have been rece au (PCT Rule 17.2(a)).	eation No sived in this National Stage
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0: Paper No(s)/Mail Date 	4) Interview Summ Paper No(s)/Mai 8) 5) Notice of Information 6) Other:	

Art Unit: 3724

DETAILED ACTION

1. This office action is in response to applicant's amendment filed 10/5/04, wherein

claim 14 was amended.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

3. Claim 14-19, 21, and 27 are rejected under 35 U.S.C. 102(b) as being

anticipated by Foreign Document (France) 2,149,173, hereinafter FD '173.

FD '173 discloses the same invention as claimed including, e.g., cutting tools (5-

8) mounted on opposing rotating drums (3,4), wherein the rotating drums are

accelerated to a driven peripheral speed equal to the strip (otherwise the cutters be

jammed by the workpiece as inherently known). FD '173 discloses a separately

controllable adjusting device (13-25), wherein the one of the drums is mounted on

rockers (14, one on each side) such that the drum is pivotable to change a distance

between the drums (as shown in the Figures). The adjusting device uses drives (20-21,

23-25, one on each side) for effecting the cutting movement and support elements (19

one on each side) for the rockers, wherein the support elements are shortenable to an

effective position for effecting cuts, in that, the support elements 19 move in and out of

the drives and therefore the length extending from the drive is shortenable.

Art Unit: 3724

As to claim 15, the support elements of FD '173 are mounted between the drives and the rockers, as shown in the Figures.

As to claim 16, the support elements of FD '173 have an effective length which is lockable by elements 22-25 or rather by not actuating the drive.

As to claim 17, FD '173 includes drives with cranks, that is, arm 23 is attached to a shaft (the center pivot pin).

As to claim 18, FD '173 includes the drives being configured as piston-cylinder units (piston 21a, cylinder 20).

As to claim 19, FD '173 discloses the use of a synchronization means between the drives and the driving device, in that, the device includes a means for controlling both the drives and the driving device to cut the strips.

As to claim 21, the device of FD '173 is fully capable of having the supporting elements moved into an effective position before a working stroke of the drive begins.

As to claim 27, the device of FD '173 is fully capable of being an integral part of coiler.

4. Claim 14-17, 19, 21, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito, U.S. Patent 4,058,041.

Ito discloses the same invention as claimed including, e.g., cutting tools (21b, 24b) mounted on opposing rotating drums (21,24), wherein the rotating drums are accelerated to a driven peripheral speed equal to the strip (see the abstract). Ito discloses a separately controllable adjusting device (26, 32-36), wherein one of the drums is mounted on rockers (26,26a) such that the drum (24) is pivotable to change a

Application/Control Number: 09/623,584

Art Unit: 3724

distance between the drums (as shown in the Figures, pivots about 29/30). The adjusting device uses drives (32,32a) for effecting the cutting movement and support elements (33,33a) for the rockers, wherein the support elements are shortenable to an effective position for effecting cuts, in that, the support elements move up and down by the eccentric cam and therefore the length extending from the drive is shortenable.

As to claim 15, the support elements of Ito are mounted between the drives and the rockers, as shown in the Figures.

As to claim 16, the support elements of Ito have an effective length, which is lockable by motor 36 or rather by not actuating the drive.

As to claim 17, Ito includes drives with cranks, that is, arms 33/33a are attached to a shaft (31).

As to claim 19, Ito discloses the use of a synchronization means between the drives and the driving device, in that, the device includes a means for controlling both the drives and the driving device to cut the strips.

As to claim 21, the device of Ito is fully capable of having the supporting elements moved into an effective position before a working stroke of the drive begins.

As to claim 27, the device of Ito is fully capable of being an integral part of coiler.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3724

6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over FD '173.

FD '173 discloses the invention substantially as claimed including a chisel blade as the cutting tools mounted on both of the drums and therefore, lacks one drum with a jacket area acting as an anvil. However, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to use a chisel in combination with jacket area anvil instead of two chisels of the purpose of preventing the need for accurate alignment between the upper and lower drums because the examiner takes Official notice of the equivalence of multiple co-acting drums using co-acting chisels or chisels and co-acting anvil jackets for their use in the flying drum cutting art and the selection of any of these known equivalents to create multiple cuts in a workpiece would be within the level of ordinary skill in the art.

7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ito in view of Shinomiya et al., U.S. Patent 4,506,577.

Ito discloses the claimed invention except that a motor and crank system is used for the drives instead of piston-cylinder units. Shinomiya et al. show that piston-cylinder units (17) are equivalent structures known in the art. Therefore, because these two blade moving means were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute piston-cylinder units for the motor and crank systems of Ito in order provide more cutting force on the blades.

8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ito.

Art Unit: 3724

Ito discloses the invention substantially as claimed including a chisel blade as the cutting tools mounted on both of the drums and therefore, lacks one drum with a jacket area acting as an anvil. However, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to use a chisel in combination with jacket area anvil instead of two chisels of the purpose of preventing the need for accurate alignment between the upper and lower drums because the examiner takes Official notice of the equivalence of multiple co-acting drums using co-acting chisels or chisels and co-acting anvil jackets for their use in the flying drum cutting art and the selection of any of these known equivalents to create multiple cuts in a workpiece would be within the level of ordinary skill in the art.

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Art Unit: 3724

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Boyer D. Ashley whose telephone number is 571-272-4502. The examiner can normally be reached on Monday-Thursday 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N. Shoap can be reached on 571-272-4514. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Boyer D. Ashley Primary Examiner Art Unit 3724

BDA January 20, 2005